## In the Claims

Claims 1-28 (canceled).

Claim 29 (currently amended): A An integrated circuit comprising:

a semiconductive substrate; and

a roughened platinum layer over the substrate, the roughened platinum layer comprising columnar platinum pedestals terminating in dome-shaped tops hemispherical grain platinum.

Claim 30 (currently amended): A circuit comprising: a semiconductive substrate; and The integrated circuit of claim 29 wherein a roughened platinum layer over the substrate, the roughened platinum layer being is continuous over an area of the substrate that comprises at least about 4 x 10<sup>6</sup> square Angstroms, and wherein the platinum and comprising pedestals that are at least about 300Å tall within the area.

Claim 31 (currently amended): The <u>integrated</u> circuit of claim 30 wherein the platinum layer comprises hemispherical grain platinum.

Claim 32 (currently amended): The <u>integrated</u> circuit of claim 30 wherein the area of the substrate comprises a square.

Claim 33 (currently amended): A circuit comprising: a semiconductive substrate; and The integrated circuit of claim 29 wherein a roughened platinum layer over the substrate, the roughened platinum layer having has a continuous surface characterized by the columnar platinum pedestals, and wherein the column platinum pedestals have having heights greater than or equal to about one-third of a total thickness of the platinum layer.

Claim 34 (currently amended): The <u>integrated</u> circuit of claim 33 wherein the platinum layer has a thickness of at least about 600Å.

Claim 35 (currently amended): The <u>integrated</u> circuit of claim 33 wherein the platinum layer has a thickness of greater than or equal to about 400Å.

Claim 36 (currently amended): The <u>integrated</u> circuit of claim 33 wherein the platinum layer has a thickness of greater than or equal to about 100Å.

Claim 37 (currently amended): The <u>integrated</u> circuit of claim 33 further comprising an adhesion layer between the platinum layer and the substrate, the adhesion layer comprising at least one of titanium nitride, iridium, rhodium, ruthenium, platinum, palladium, osmium, silver, rhodium/platinum alloy, IrO<sub>2</sub>, RuO<sub>2</sub>, RhO<sub>2</sub>, or OsO<sub>2</sub>.

Claims 38 and 39 (cancelled).

Claim 40 (currently amended): A capacitor comprising:

a first capacitor electrode;

a second capacitor electrode;

a dielectric layer between the first and second capacitor electrodes; and

wherein at least one of the first and second capacitor electrodes comprises a

roughened platinum layer, the roughened platinum layer having a thickness of from about

400Å to about 1000Å and comprising platinum pedestals that are at least about 300Å tall

and terminate in dome-shaped tops.

Claim 41 (original): The capacitor of claim 40 wherein the roughened platinum layer

comprises hemispherical grain platinum.

Claim 42 (original): The capacitor of claim 40 wherein the roughened platinum layer is over

a surface and is continuous over an area of the surface that is at least about 4 x 106

square Angstroms.

Claim 43 (original): The capacitor of claim 42 wherein the area comprises a square.

Claim 44 (currently amended): A capacitor comprising:

a first capacitor electrode;

a second capacitor electrode;

a dielectric layer between the first and second capacitor electrodes; and

wherein at least one of the first and second capacitor electrodes comprises a

roughened platinum layer, the roughened platinum layer having a continuous surface

characterized by columnar platinum pedestals having heights greater than or equal to

about one-third of a total thickness of the platinum layer; the platinum pedestals

terminating in dome-shaped tops.

Claim 45 (original): The capacitor of claim 44 wherein both capacitor electrodes comprise

platinum, but only one of the capacitor electrodes comprises the roughened platinum layer.

Claim 46 (original): The capacitor of claim 44 wherein both capacitor electrodes comprise

roughened platinum layers.

Claim 47 (cancelled).

Claim 48 (currently amended): The circuit capacitor of claim 44 wherein the platinum

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pedestals terminate in hemispherical tops.

Claims 49-56 (cancelled).